1.-13. (CANCELED)

14. (NEW) A method for manufacturing a nano-particulate electrode for Dye Solar Cells including the steps of:

providing an electrically conductive substrate,
forming a nano-particulate layer on the substrate,
applying a dye to the nano-particulate layer; and
an additional step of electrolytic treatment of the nano-particulate layer in
an electrolyte.

- 15. (NEW) The method according the claim 14, further comprising the step of the electrolyte containing ions chemically different to the nano-particulate layer and the electrolytic treatment step comprises transferring material from the electrolyte in the form of ions into the surface of the nano-particulate layer resulting in formation of a barrier-layer, electronic properties of which differ from that of the original nano-particulate layer.
- 16. (NEW) The method according to claim 14, further comprising the step of heating to ensure stable bonding of the barrier layer to the nano-particulate layer, following the electrolytic treatment step.
- 17. (NEW) The method according to claim 13, further comprising the step of partial removal of material from the nano-particulate layer to the electrolyte during the electrolytic treatment step.
- 18. (NEW) The method according to claim 13, further comprising the step of containing ions of UV, visual light and/or Infra red absorbing material in the electrolyte.
- 19. (NEW) The method according to claim 17, further comprising the step of using dye as the absorbing material.
- 20. (NEW) The method according to claim 14, further comprising the step of using a metal or a mixed metal oxide as the nano-particulate layer.

- 21. (NEW) The method according the claim 20, further comprising the step of using titanium dioxide as the metal oxide.
- 22. (NEW) A method for manufacturing nano-particulate electrode for DSC including the steps of:

providing a substrate, and

electrolytic deposition of the nano-particulate layer from an electrolyte and application of dye to the nano-particulate layer.

- 23. (NEW) The method according to claim 14, further comprising the step of the electrolytic treatment including at least one step of transfer of a predetermined amount of electrical charge between the electrolyte and the nano-particulate layer.
- 24. (NEW) The method according to claim 23, further comprising the steps of transferring the charge under constant current conditions with imposed voltage limits, such as when voltage reaches the imposed limit a control circuitry switches from the constant current to the constant voltage mode, keeping the constant voltage mode until either the current drops below a predetermined current value or the predetermined amount of electrical charge has passed between the electrolyte solution and the nanoparticulate electrode.
- 25. (NEW) The method according to claim 23, further comprising the step of the electrolytic treatment including at least first and second half-cycles, each transferring the predetermined amount of charge; in the first half-cycle the charge is transferred by movement of ions from the electrolyte to the nano-particulate layer, in the second half-cycle the charge is transferred by movement of ions from the nano-particulate layer to the electrolyte.
- 26. (NEW) The method according to claim 25, further comprising the step of the electrolytic treatment including at least first and second cycles and a predetermined charge in the second cycle is larger than in the first cycle.